

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	80	(43/27,72,215).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 11:47
L2	1985	(433/27,72,215).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 11:49
L3	0	l2 and singal and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 11:51
L4	137	l2 and signal and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 11:51
L5	1523	(600/547).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 12:00
L6	1035	l5 and signal and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 12:01
L7	942	l5 and signal and voltage and impedance	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 12:01
L8	833	l5 and signal and voltage and impedance and body	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 12:02
L9	26	l5 and signal and voltage and impedance and body and (dental or tooth or teeth)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/23 12:02
S1	1	("20040158169").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 08:31
S2	1	S1 and (amplitude same frequency)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 08:51
S3	0	S1 and (amplitude same frequency) and pahse	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 08:52
S4	1	S1 and (amplitude same frequency) and phase	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 08:52

S5	1	S1 and lead	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 08:56
S6	1	S1 and signal adj conditioner	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:02
S7	1	S1 and empirical	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:08
S8	1	S1 and (divider same single)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:12
S9	1	S1 and (stimulation same amplifying)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:14
S10	1	S1 and equation	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:15
S11	1	S1 and synchronous	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:16
S12	1792	(433/27,72,215).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:20
S13	204	S12 and canal	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:25
S14	1330	(600/547).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:36
S15	45	S14 and canal	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:37
S16	17	("3916529"   "3993044"   "4273531"   "4447206"   "4526179"   "5017134"   "5049069"   "5080586"   "5211556"   "5295833"   "5759159"   "5902105"   "6059569"   "6425875"). PN. OR ("6845265"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:44
S17	17	"4353693"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 09:57

S18	25	("1366877"   "1713971"   "3346958"   "3660901"   "3839797"   "3916529"). PN. OR ("4243388"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:28
S19	12	(S12 or S14) and (synchronous adj demodulation)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:39
S20	32	(S12 or S14) and electrical near noise	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:42
S21	1	(S12 or S14) and ((electrical near4 noise) same instrument)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:43
S22	31266	("433").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:45
S23	0	S22 and ((electrical near4 noise) same instrument)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:45
S24	76263	("600").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:45
S25	43	S24 and ((electrical near4 noise) same instrument)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:45
S26	4	S24 and ((electrical near4 noise) same instrument) and canal	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/15 10:45
S27	1268	electrical adj noise same (remov\$4 or demodulat \$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 08:42
S28	1268	electrical adj noise same (remov\$4 or demodulat \$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 08:42
S29	104	electrical adj noise same (remov\$4 or demodulat \$3) and fourier	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 08:48
S30	5	electrical adj noise same (remov\$4 or demodulat \$3) and convolving	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:01
S31	60	electrical adj noise and demodulat\$3 same (foruer or algorithm)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:05
S32	269160	instrument and apical or root	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:20

S33	15162	instrument and (apical or root) and measure	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:25
S34	1747	instrument and (apical or root) same measure	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:25
S35	1122	instrument and (apical or root) same measure and signal	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:25
S36	894	("I12" or "I14") and instrument	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:25
S37	1792	(433/27,72,215).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:26
S38	1330	(600/547).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:26
S39	792	(S37 or S38) and instrument	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:26
S40	208	(S37 or S38) and instrument and (apical or root)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/17 09:27
S41	31283	("433").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 10:41
S42	40	root adj canal and impedance and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 10:42
S43	17	("3916529"   "3993044"   "4273531"   "4447206"   "4526179"   "5017134"   "5049069"   "5080586"   "5211556"   "5295833"   "5759159"   "5902105"   "6059569"   "6425875").PN. OR ("6845265").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 11:05
S44	25	("3901216"   "4193408"   "4353693"   "4447206"   "4526179"   "5017134"   "5020541"   "5063937"   "5080586"   "5096419"   "5112224"   "5211556"   "5295833").PN. OR ("5759159").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 11:11

S45	2402	demodulation same fourier	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 13:17
S46	246	demodulation same fourier same noise	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 13:17
S47	1846	demodulation same (single near\$3 fourier) same noise	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 13:20
S48	3	demodulation same (single near3 fourier) same noise	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 13:20
S49	6	root adj canal and reference near3 impedance and voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/23 14:41
S50	1	("4353693").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 07:50
S51	1792	(433/27,72,215).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:03
S52	1330	(600/547).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:03
S53	2	(S51 or S52) and haptic	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:03
S54	31283	("433").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:04
S55	4	S54 and haptic	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:04
S56	1	(root adj canal) and haptic	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:04
S57	1	("4193408").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:28
S58	6	(root adj canal) and low adj pass	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 08:37
S59	1	("6356350").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 09:02
S60	1	("5759159").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 09:02

S61	1	("5267997").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 09:02
S62	2	((SCOTT) near2 (LEWALLEN)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 09:03
S63	5	((DANIEL) near2 (THACKER)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/24 09:03
S64	1	("6845265").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 08:24
S65	17	("3916529"   "3993044"   "4273531"   "4447206"   "4526179"   "5017134"   "5049069"   "5080586"   "5211556"   "5295833"   "5759159"   "5902105"   "6059569"   "6425875"). PN. OR ("6845265"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 08:24
S66	2	((SCOTT) near2 (LEWALLEN)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 08:25
S67	1	S66 and (reference same resistive)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 08:46
S68	1	S66 and (low same amplify)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 08:51
S69	1	S66 and (single near3 frequency)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 08:56
S70	1	S66 and (imped\$4 same resistive)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 09:04
S71	1	S66 and (reference same signal)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 09:17
S72	1	S66 and (amplif\$4 same divider)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 09:20
S73	1943	(433/27,72,215).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 11:36
S74	198	S73 AND (APEX OR API CAL)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 12:03

S75	1481	(600/547).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 12:12
S76	96	S75 AND (APEX OR APICAL)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/27 12:12

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	42	(433/27,72,215).OCLS.	UPAD	OR	OFF	2010/02/23 12:04
L11	0	(dental and (apex or apical) and signal and driver and impedance). clm.	USPAT; UPAD	OR	OFF	2010/02/23 12:06
L12	0	(dental and apical and signal and impedance). clm.	USPAT; UPAD	OR	OFF	2010/02/23 12:07
L13	3	(dental and apical and signal and impedance). clm.	US-PGPUB; USPAT; UPAD	OR	OFF	2010/02/23 12:07

**2/ 23/ 2010 12:08:09 PM****C:\ Documents and Settings\ hbashaw\ My Documents\ EAST\ Workspaces\ 10772104.wsp**